

# LED Cube

---

Tyson Morlock - Aaron Aaberg - Jared Gratzek - Dane Swartz - Jake Goodell

## Brief Description:

Back in the 70's there was a novel possession found in almost every best room, this glorious device was the Lava Lamp. Ever since this object has had a great impact on pop culture. Fast forward 40 years and Lava Lamps have essentially gone extinct. Now is the time to revive the idea of this eye pleasing lamp and update it with technology from the 21<sup>st</sup> century. Hence, the LED Lamp. This device will consist of 512 LEDs formed in an 8x8x8 cube which is attached to an audio speaker. The music played from the speakers will be filtered and transformed into an amazing lightshow.

## Budget:

Component	Estimated	Price	Total
100 LEDS	\$21	Free	Free
500 LEDS	\$250	\$250	\$250
Mounting Supplies	\$20	\$20	\$20
Audio Processor	\$150	\$150	\$150
Audio Jack	\$5	\$5	\$5
Block of Wood	Free	Free	Free
Electrical Stuff	\$50	\$50	\$50
Speaker/Housing	\$25	\$25	\$25

**Total: \$500**

## Diagram:

External MP3 Player will be hooked up through an axillary cable hooked to a buffer (prevents feedback to MP3 Device). The audio will be sent to the speaker and an audio microprocessor. The processor will then filter the audio signal into an output to pass to another microprocessor in charge of running the LEDs. The LEDs will be controlled based on what sounds are coming from the initial MP3 Player.

